

Date:

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## Grade 7: Math

### 5.1 Data Management

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#### Introduction

- **Data** refers to facts or statistics collected used for reference or analysis.

Note: Data is a plural noun. The word datum is used for a single piece of information.

- **Primary Data** refers to data collected by an individual themselves. In other words it is first hand data.

Example 1: You survey the choice of cereal for each student in the school.  
The data collected is primary data for you.

Example 2: Sofia and Katie surveyed the school about which singer they liked the most.  
The data collected is primary data for Sofia and Katie

- **Secondary Data** refers to data collected by a source and used by another individual or source.

Example 3: If Ms. Philip uses your survey on cereals, this data is secondary data for Ms. Philip.

Example 4: The data collected by Sofia and Katie is secondary data for Simon and Jack.

- **Biased Data** is data influenced by an individual's preference or surveyed in a manner that would favor a particular response.

Example 5: Ms. Philip surveys 6-7 year old boys and girls about their favourite food.  
90% of the children said they liked chocolates.  
Ms. Philip concludes chocolate is the food of choice for children in school.

Example 6: A survey question reads: "*Students get a longer vacation if the exams are held earlier.*"  
*Should exams be held earlier?*

- Question: Why is it important for a survey/data to be unbiased?

- **Classwork:** Page 170-171 # 1-7.

## Recording Data

- You have each been given a book.  
Count the number of words on pages 21, 22, 23, 24 and 25 and record your finding in the table below.

Page number	Tally	Frequency

- The above table is called a **frequency table**.
- The same information can be represented using a **pictograph**

Page number	Number of words
21	
22	
23	
24	
25	

KEY: \_\_\_\_\_ Represents \_\_\_\_\_ words

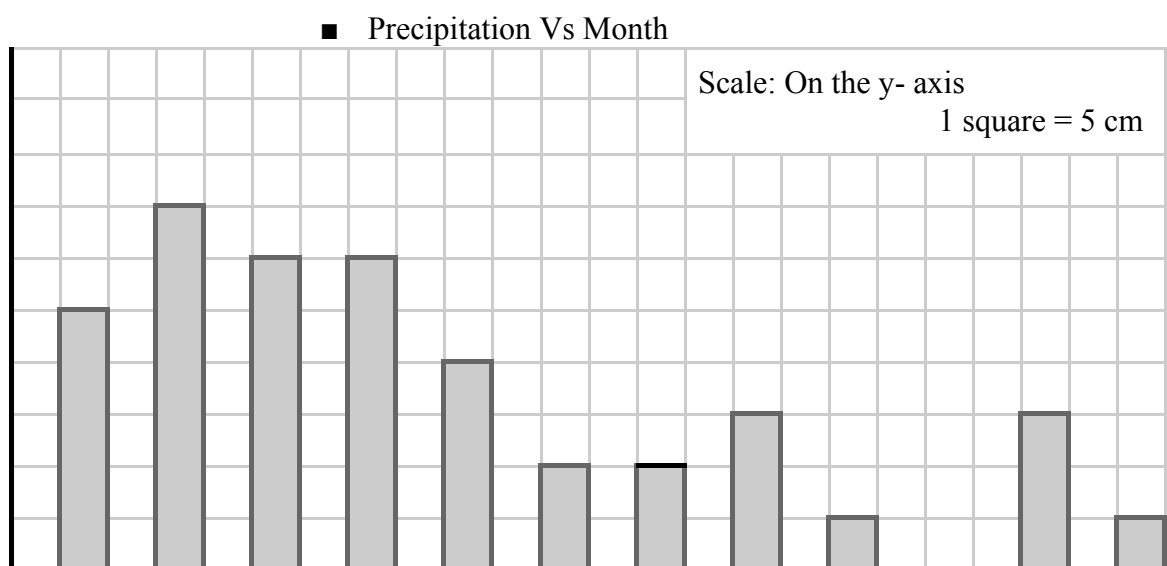
- We can also represent the information using **bar graphs**.



1. Ms. Philip goes to Canada Wonderland. She notices many individuals scream when on the Crashin' n Thrashin' roller coaster. She decides to make a tally of the number of individual screaming on the roller coaster. Complete the table and answer the following questions.

Ride number	Tally	Frequency
1		
2		11
3		
4		
5		

- Which ride has the most individuals screaming?
  - Which ride had the least number of individuals screaming?
  - If Ms. Philip was in the roller coaster for ride number 3, how many people were screaming in her roller coaster?
2. The bar graph below shows rainfall at various months.



- Which month had the highest rainfall?
- Which month had the least rainfall?
- Describe the trend.

- Homework:** Page 176 #1, 3, 4, 5 (Toronto, Winnipeg, Saskatchewan, Vancouver, Montreal), 7